

QIBA Ultrasound Shear Wave Speed (SWS) Biomarker Committee (BC)

Wednesday, January 19, 2022; 2 PM CT

Call Summary

In attendance

David Fetzer, MD (Co-Chair)
Stephen McAleavey, PhD (Co-Chair)
Stephen Rosenzweig, PhD (Co-Chair)
Michael André, PhD
Jeffrey Bamber, PhD
Richard Barr, MD, PhD
Peter Chang, PhD, PMP
Jun Chen, PhD

Todd Erpelding, PhD, MSE
Giovanna Ferraioli, MD
J. Brian Fowlkes, PhD
Zaegyo (Jay) Hah, PhD, MBA
Timothy J. Hall, PhD
Rik Hansen, PhD
Reinhard Kubale, MD
Viksit Kumar, PhD

Ravi Managuli, PhD, RDMS
Nancy Obuchowski, PhD
Kevin O'Donnell, MASc
Arinc Ozturk, MD
Mark Palmeri, MD, PhD
Michael Wang, PhD, MASc
Keith Wear, PhD

RSNA

Joe Koudelik

Moderator: Dr. McAleavey

The following were discussed:

- Checklist condensed and detailed feedback re: terminology addressed
- Clinical interpretation language and ROI sample box dimensions
- Importance of measurements based on image acquisition technique
- Timeframe between acquisitions
- Number of measurements needed per acquisition
- Statistics around SWS values

Action items:

- Staff to send current list of SWS BC members to co-chairs
- Dr Fetzer to address comments from Drs. Ferraioli and Barr re: the clinical interpretation text
- Manufacturer input needed re: ROI selection size and number measurements recommended per acquisition
 - Consensus was to keep 10 measurements per acquisition in the current Profile, but flag this as an open issue needing further exploration
 - Manufacturer changes to the number of measurements can be integrated into the next Profile version, i.e., Stage 3 (Technically Confirmed); this will provide real world feedback during site feasibility testing
- Importance of each measurement being associated with an independent image acquisition needs to be emphasized, i.e., multiple measurements cannot be made from a single acquisition
- Ambiguity re which MCV to use for various precision needs clarification
- Dr. McAleavey to circulate an updated Profile and submit a Public Comment Resolution document for wiki posting

Next Steps per QIBA Process Committee

- Clean up the checklist (keep most/all the recommended lines, migrate normative material from Notes into Requirements, clean up any ambiguities)
- Get BC approval of the checklist modifications - via a voice vote
- Resynch the Profile so the table contents match the updated checklists
- Circulate updated Profile & checklist for BC approval— focus on approving technical content of the Profile (Resolve any comments that come in)
- Circulate the resulting Profile & Checklist for formal CC approval (email ballot) – focus on approving the BC is doing everything properly (Resolve any ballot comments that come in)
- Publish as Stage 2: Consensus and move on to Stage 3: Technically Confirmed. (Road test the new checklists.)
- An AIUM presentation regarding QIBA activities is going forward and will feature Drs. Hall and McAleavey as speakers for SWS, as well as QIBA co-chairs from other US BCs for CEUS, PEQUUS, and VBF

Profile Approval Process: See voting and balloting process links: <http://qibawiki.rsna.org/index.php/Process>

Minor Profile updates do not require voting but must be documented appropriately for versioning

Next call – *Wednesday, February 9th at 2 pm CT {now 2nd Wednesdays of the month}*